Claims

- A system for cooling to a low temperature at least one piece of equipment, particularly a piece of motor 5 vehicle equipment, comprising a circulation loop (4) for heat-transfer fluid on which loop are mounted a low-temperature heat exchanger (60) and at least an equipment exchanger (102) comprising a heat-exchange heat-exchange characterized in that the surface, 10 surface of the equipment exchanger (102) is between at least a first and a second heat-exchange section (104, 106), the first heat-exchange section (102) having a first flow rate (Q_1) of heat-transfer fluid passing through it, the second heat-exchange 15 section (106) having a second flow rate (Q_2) of heattransfer fluid passing through it, the first flow rate (Q_1) being greater than the second flow rate (Q_2) .
- 1, in system claimed as cooling The 20 2. low-temperature the that characterized in exchanger (60) comprises at least a first and a second outlet nozzle (78, 132, 141, 143) for the heat-transfer fluid, the first nozzle being connected to the first heat-exchange section (104), the second nozzle being 25 connected to the second heat-exchange section (106), the heat-transfer fluid leaving the low-temperature exchanger (60) via the first outlet nozzle being at a temperature higher than that of the heat-transfer fluid leaving the low-temperature heat exchanger via the 30 second outlet nozzle.
 - 2, claim claimed in system as cooling The low-temperature heat the that characterized in multitude of comprises a (60) exchanger 35 circulation passes (86, 88, 90) through which the heattransfer fluid travels in succession, the first nozzle being located upstream of the second nozzle with

respect to the circulation of the heat-transfer fluid through the passes (86, 88, 90).

- 4. The cooling system as claimed in one of claims 1 to 3, characterized in that the low-temperature circulation loop (4) comprises a circulation pump (58).
- 5. The cooling system as claimed in one of claims 1 to 3, characterized in that the low-temperature circulation loop (4) is mounted as a bypass between the inlet and outlet of the cooling circuit (2) of the motor vehicle combustion engine.
- 6. The cooling system as claimed in one of claims 1 to 5, characterized in that the equipment exchanger (102) is an intercooler.
- The cooling system as claimed in one of claims 1 to 5, characterized in that the equipment exchanger
 (102) is a condenser forming part of the motor vehicle cabin air-conditioning circuit.
- 7, as claimed in claim system cooling 8. The condenser comprises the that in characterized coolant-fluid condensation section (104) and a coolant-25 fluid supercooling section (106) and a reservoir (154) for filtering and dehydrating the coolant fluid, the section constituting the first condensation exchange section (104) of the equipment exchanger, the supercooling section constituting the second heat-30 exchange section (106) of the equipment exchanger.
- 9. The cooling system as claimed in claim 8, characterized in that the reservoir (154) is inserted between the first heat-exchange section (104) and the second heat-exchange section (106).

10. The cooling system as claimed in claim 8, characterized in that the reservoir (154) is situated after the second heat-exchange section (106).